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MAR 1952 51-4C

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CENTRAL INTELLIGENCE AGENCY
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FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT
CD NO.

COUNTRY	USSR	DATE OF INFORMATION	1953
SUBJECT	Scientific - Chemistry, toxic compounds		
HOW PUBLISHED	Monthly periodical	DATE DIST.	29 Jan 1954
WHERE PUBLISHED	Leningrad	NO. OF PAGES	2
DATE PUBLISHED	Aug 1953		
LANGUAGE	Russian	SUPPLEMENT TO REPORT NO.	

THIS IS UNEVALUATED INFORMATION

SOURCE Zhurnal Obshchey Khimii, Vol 23, No 8, pp 1431, 1432

α-GLYCOL ESTERS OF p-NITROPHENYLARSENOUS AND α-NAPHTHYLARSENOUS ACIDS

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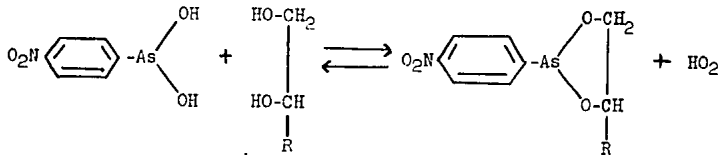
[The experimental part of this article has been omitted.]

The present short work is a further development of our investigations in the field of cyclic glycol esters of arsenous and arylarsenous acids. Here we undertook the study of the methods of obtaining several cyclic α-glycol esters of p-nitrophenylarsenous and α-naphthylarsenous acids.

By the action of an equimolecular quantity of p-nitrophenylarsenous acid on various α-glycols (with heating), the α glycol esters of p-nitrophenylarsenous acid were synthesized according to the following scheme:



where: R = H, CH_2CCH_3, or $CH_2OC_2H_5$.

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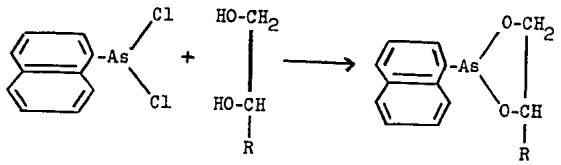
In this way, the ethyleneglycol, α-methoxypropyleneglycol, and α-ethoxypropyleneglycol esters of p-nitrophenylarsenous acid were prepared and then isolated. The esters readily saponify in water.

We prepared the α-glycol esters of α-naphthylarsenous acid by the reaction between α-naphthyldichloroarsine and the corresponding α-glycol in the presence of anhydrous pyridine. The reaction was carried out in absolute ether according to the following scheme:



The α-glycol esters of α-naphthylarsenous acid which are thus obtained are thick, transparent liquids unstable in air. They hydrolyze to form α-naphthylarsine oxide.

Conclusions: Various α-glycol esters of p-nitrophenylarsenous and α-naphthylarsenous acids have been synthesized and their properties studied.

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